

ABSTRACT

A light emitting device including a UV semiconductor light source and a phosphor blend including a blue emitting phosphor, a green emitting phosphor and a deep red emitting phosphor comprising $(\text{Ba}, \text{Sr}, \text{Ca})_3\text{Mg}_x\text{Si}_2\text{O}_8:\text{Eu}^{2+}$, wherein $1 \leq x \leq 2$. Also disclosed is a phosphor blend comprising a blue emitting phosphor, a green emitting phosphor and a red emitting phosphor comprising $(\text{Ba}, \text{Sr}, \text{Ca})_3\text{Mg}_x\text{Si}_2\text{O}_8:\text{Eu}^{2+}$.

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